

Test sponsor	Door leaf sponsor	Report issue date	Test assessment report no.
Access Control Australia Pty Ltd T/A Talbot Automatic Doors & Gates 8/63 Norman Street Peakhurst NSW 2210 Australia	Firecore Pty Ltd 291 Warringah Road Beacon Hill NSW 2100 Australia	8 May 2020	DHAR FRT190260a.1
		<b>Report validity date</b> 8 May 2025	

**Table 1 Quality management**

Version	Date	Information about report			
R1.0	8 May 2020	Description	Initial issue		
			Prepared by	Reviewed by	Authorised by
		Name	Sumathi Gurusamy	Patrick Chan	Patrick Chan
		Signature	<i>G. Sumathi</i>	<i>Patrick Chan</i>	<i>Patrick Chan</i>

## Objective

To assess the fire resistance performance of a TVC30 core Firecore doorset with the nominated variation to the door closer.

## Variations considered in this report

Fitting a Talbot DSW 200 swing door operator instead of the door closer tested in the referenced test.

**Table 2 Referenced test reports**

Test reference	Doorset description	Test standard
FSV 1382a	Single leaf TVC30 core Firecore doorset, nominally 38 mm thick.	AS 1530.4:2005
FSV 1418a	Single leaf TVC40 core Firecore doorset, nominally 48 mm thick.	AS 1530.4:2005
FSV 1391a	Double leaf TVC40 core Firecore doorset, nominally 48 mm thick.	AS 1530.4:2005

**Table 3 Additional supporting information**

Test report	Doorset description	Test duration	Test standard
FRT190260	Single leaf TVC30 core Firecore mini doorset, nominally 38 mm thick	120 minutes	AS 1530.4:2014
A pilot scale fire resistance test in accordance with appendix B11 of AS 1530.4:2014 was conducted on a pilot scale doorset on the 30 April 2020. It included a Talbot DSW 200 swing door operator fitted onto the door frame on the unexposed side.			

## Description of the tested door hardware



Figure 1 Unexposed view of the tested hardware

**Table 4 Specimen description**

Item	Description	
Product name	Talbot DSW 200 swing door operator	
<b>Door system properties</b>		
Door leaf thickness	38 mm (measured)	
Location of door closer	Installed on the top of the door frame	
<b>Pre-test functionality test</b>		
Opening and closing cycles	The doors were subjected to a series of 50 opening and closing cycles of at least 75° for side-hung doorsets in accordance with clause 7.2.5 of AS 1530.4:2014.	
Average clearance measurements	Top edge	0.7 mm (measured)
	Latch edge	1.3 mm (measured)
	Hinge edge	1.2 mm (measured)

## Discussion

If the proposed Talbot DSW 200 swing door operator does not initiate failure of the pilot scale doorset before failure occurred on the referenced doorsets, then it is not expected that substituting the door closer in the referenced test with the proposed door closer will have a detrimental effect on the performance of the referenced doorsets.

AS 1530.4:2014 states that sustained flaming on the surface of the unexposed face for 10 seconds or longer constitutes integrity failure. During the reference test – FRT190260 – the Talbot DSW 200 swing door operator did not initiate failure of the doorset for the duration of the test.

Results from the pilot scale test – FRT190260 – show that the Talbot DSW 200 swing door operator is positively assessed for the test periods as indicated in our conclusion.

## Conclusion

Based on the discussion above, it is the opinion of this laboratory that the doorsets listed in Table 5 will achieve the fire resistance level (FRL) shown in Table 5 if they are fitted with Talbot DSW 200 swing door operator on the doorsets – as described in this assessment report.

This assessment has been prepared in accordance with section 4.5 of AS 1905.1:2015 and is conditional upon the operational characteristics and materials of the doorset complying with section 2 of AS 1905.1:2015. The field of application of the door closer is defined by the field of application of the doorset that the door closer is installed upon.

**Table 5 Conclusion of assessment**

Test reference	Description	FRL
FSV 1382a	Single leaf TVC30 core Firecore doorset, nominally 38 mm thick.	-/120/30
FSV 1418a	Single leaf TVC40 core Firecore doorset, nominally 48 mm thick.	-/120/30
FSV 1391a	Double leaf TVC40 core Firecore doorset, nominally 48 mm thick.	-/120/30

## Conditions/validity

- The conclusions of this assessment may be used to directly assess the fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all conditions.
- Because of the nature of fire resistance testing, and the consequent difficulty in quantifying the uncertainty of measurement, it is not possible to provide a stated degree of accuracy of the result. The inherent variability in test procedures, materials and methods of construction, and installation may lead to variations in performance between elements of similar construction.
- The assessment can therefore only relate to the actual prototype test specimens, testing conditions and methodology described in the supporting data, and does not imply any performance abilities of constructions of subsequent manufacture.
- This assessment is based on information and experience available at the time of preparation of this report. The published procedures for the conduct of tests and the assessment of the test results are the subject of constant review and improvement and it is recommended that this report be reviewed before the validity date by Warringtonfire Australia Pty Ltd.
- The information in this report must not be used for the assessment of variations other than those stated in the conclusions above. The assessment is valid provided no modifications are made to the systems detailed in this report. All details of construction should be consistent with the requirements stated in the relevant test reports and all referenced documents.
- All work and services carried out by Warringtonfire Australia Pty Ltd are subject to, and conducted in accordance with, our standard terms and conditions of Warringtonfire Australia Pty Ltd, which are available at <https://www.element.com/terms/terms-and-conditions> or on request.

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